

## I. INTRODUCTION

## Company Information

## II. FACILITY/PROCESS DESCRIPTION

April 19, 2007

**Table-1: Facility wide Emissions**

Pollutant	PTE (Statewide)
	tons per year
PM <sub>10</sub>	26.90
CO	24.87
NO <sub>x</sub>	115.71
SO <sub>2</sub>	7.63
VOCs	9.20

Synthetic minor limitations for hours of operation are as detailed in Table 2 below.

**Table-2: Synthetic Minor Limitation**

Pollutant	PTE	Annual Operating Hours
	tons per year	
PM <sub>10</sub>	24.87	
CO	26.90	
NO <sub>x</sub>	115.71	6831.12
SO <sub>2</sub>	7.63	
VOCs	9.20	

In order to stay below major source threshold, source is willing to limit the hours of operation to 6830 hours a year.

Facility wide potential to emit under synthetic minor limitations for Western Mining & Materials is tabulated in Table 3.

**Table-3: Emission under Synthetic Minor Limitations**

Pollutant	PTE
	tons per year
PM <sub>10</sub>	20.97
CO	19.39
NO <sub>x</sub>	89.98
SO <sub>2</sub>	5.95
VOCs	7.17

#### IV. APPLICABLE REGULATIONS

**Table-4: Verification of Applicable Regulations**

Unit	Date of Manufacture	Control Device	Rule	Verification
Crushing and Screening operations	Pre-1983	Water Sprays/Water Truck.	A.A.C. R18-2-722, A.A.C. R18-2-702	R18-2-722 regulates emissions from crushing & screening plants. R18-2-702 contains opacity limits for point sources.
Crushing and Screening operations	Post-1983	Water Sprays/Water Truck.	40 CFR 60, Subpart OOO	The screens, crushers and conveyors, etc. are subject to the applicable NSPS requirements outlined in 40 CFR 60, Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants.
Generators	N/A	N/A	R18-2-719	This standard applies to all stationary rotating machinery
Fugitive dust sources	N/A	Water and other reasonable precautions.	Article 6 A.A.C. R18-2-702	These standards are applicable to all fugitive dust sources.
Mobile Sources	N/A	Water Sprays/Water Truck for dust control	Article 8	This Article is applicable to off-road mobile sources, which either move while emitting air pollutants or are frequently moved during the course of their utilization.
Spray painting operations	N/A	N/A	A.A.C. R-18-2-727,	This standard is applicable to any spray-painting operation.
Demolition/renovation operations	N/A	N/A	A.A.C. R18-2-1101.A.8	This standard is applicable to any asbestos related demolition or renovation operations.

#### V. MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS

- a. The Permittee is required to conduct a monthly survey of visible emissions emanating from the crushing & screening plant equipment at the facility. If the opacity of the emissions observed appears to exceed the opacity limit, the observer must conduct a certified EPA Reference Method 9 observation. The Permittee is required to keep records of the initial survey and any EPA Reference Method 9 observations performed. If the observation results in an exceedance of the opacity limit, the Permittee is required to take corrective action and log all such actions. Any exceedance must be reported to ADEQ as an “excess emission”.
- b. The Permittee is required to conduct a quarterly EPA Reference Method 9 observation of emissions emanating from the crushing & screening plant equipment at the facility. Permittee is required keep a record the results of the observation. If the observation

results in an exceedance of the opacity limit, the Permittee is required to take corrective action and log all such actions. Any exceedance must be reported to ADEQ as an “excess emission”.

- c. The Permittee is required to conduct a monthly visual survey of the fugitive emissions from any point source in the facility. If any observation appears to exceed the opacity standard, the Permittee must conduct and record a proper Method 9 observation. If this observation is in excess of the opacity standard, suitable corrective action shall be taken and also reported to ADEQ as an “excess emission”.
- d. The Permittee is required to conduct monthly surveys of visible emissions from the internal combustion engine stacks. If any observation appears to exceed the opacity standard, Permittee shall conduct and record a proper Method 9 observation. If this observation is in excess of the opacity standard, suitable corrective action shall be taken and also reported to the agency as an “excess emission”.
- e. The Permittee is required to maintain records of fuel supplier certification document showing the name of the fuel supplier, the typical heating value of the fuel, and the maximum sulfur content to demonstrate compliance or a letter from fuel supplier stating sulfur content and typical heating value of fuel.

**VI. LIST OF ABBREVIATIONS**

A.A.C.	.....	Arizona Administrative Code
ADEQ	.....	Arizona Department of Environmental Quality
CO	.....	Carbon Monoxide
HP	.....	Horsepower
NO <sub>x</sub>	.....	Nitrogen Oxide
PM <sub>10</sub>	.....	Particulate Matter Nominally less than 10 Micrometers
PTE	.....	Potential-to-Emit
SO <sub>2</sub>	.....	Sulfur Dioxide
VOC	.....	Volatile Organic Compound